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MULTIFUNCTIONAL I/O ORGANIZER UNIT FOR MULTIPROCESSOR MULTIMEDIA CHIPS

ABSTRACT OF THE DISCLOSURE

An apparatus and method for providing enhanced performance for multi-processor multimedia chips. In one embodiment, the present invention is comprised of a data and communication apparatus coupled with the multimedia system in which the multi-processor multimedia chips are disposed. The present invention is comprised of a data memory to retrievably store data. The present invention is further comprised of an instruction memory to retrievably store instructions. The present invention is also comprised of an incoming buffer which permits transfer of data into the data and communication apparatus and provides fast access to streaming data. The present invention is additionally comprised of an outgoing buffer which monitors and permits transfer of data out of the data and communication apparatus.